Maciej Kos

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Profile

Data scientist with a strong background in behavioral sciences, health informatics, and UX. Improves products by providing data-informed insights about user behavior. Works well in diverse teams on time-sensitive projects. Effectively solves meaningful problems using mixed-methods spanning multiple fields. Biased towards mechanistic modeling and causal inferences.

Education

Northeastern University, Boston, MA Ph.D. in Computer Science / Personal Health Informatics (GPA: 4.0)	09/2015 – present
University of Michigan, Ann Arbor, MI Master of Arts in Information Science (behavioral research)	12/2012
Barcelona Graduate School of Economics, Barcelona, Spain Master of Science in Economics of Science and Innovation	06/2009
University of Gdansk, Sopot, Poland Bachelor and Master of Arts in Economics and E-business	06/2005

Relevant Experience

Research Assistant at Khoury College of Computer Sciences, Northeastern University, Boston, MA	09/2015 – present
UX Research Intern (quantitative) at Google, Material Design, San Francisco, CA	05/2019 – 09/2019
Research Intern (Clinical Data Analytics) at Philips Healthcare Research, Cambridge, MA	05/2018 – 09/2018
Investigator / Research Group Manager, Research Grant: Genetic health risk information avoidance, Sopot, Poland & Boston, MA	07/2013 – 05/2018
User Experience and Research Consultant at Agile Axons (self-employed), Gdynia, Poland and Rome, Italy	01/2013 – 08/2015
Graduate Research Assistant at the School of Information, University of Michigan, Ann Arbor, MI	08/2009 – 01/2012

Skills

Expertise in: R, Python, Stata, d3.js/Tableau

Machine Learning: Dimensionality reduction, clustering, support vector machines, ridge regression, logistic classification, random forests, regression trees

Statistics: Multilevel univariate and multivariate regression models, structural equation modeling, psychometric modeling

Other: Data visualization, network analysis, UX research and design, AI/ML pipelines

Selected Projects (see more at: **mkos.pl/projects.html**)

Google Material Design: developed an algorithm for computing website's cognitive complexity, prototyped analytics pipeline, which parses 400 billion pages and fuses Google's signals.

Contraception Aid: develops a mobile app to help low-income Latinas select affordable birth control options that are consistent with their fertility goals (with Harvard Boston Children's Hospital).

Philips Healthcare: prototyped two integrated monitoring and decision-support systems for intensive care units (innovation disclosures submitted)

Child Aid: as a volunteer on large-scale experimental intervention to increase literacy of Guatemalan children analyzed data and consulted on research design

Digital Breeze: led the UX team in designing a consumer-facing mobile application for a large Italian telco (with Ericsson, McKinsey, and Monk Software)

WearTech: helped develop and evaluate a cutting-edge algorithm for improving the accuracy of heart rate variability estimates from wearable devices

Selected Awards

ACM/Intel Corporation Computational and Data Sciences Fellowship, 2017 – 2020
Polish National Science Center research grant ($77 000), 2013 - 2016

List of publications available at: **mkos.pl/publications.html**